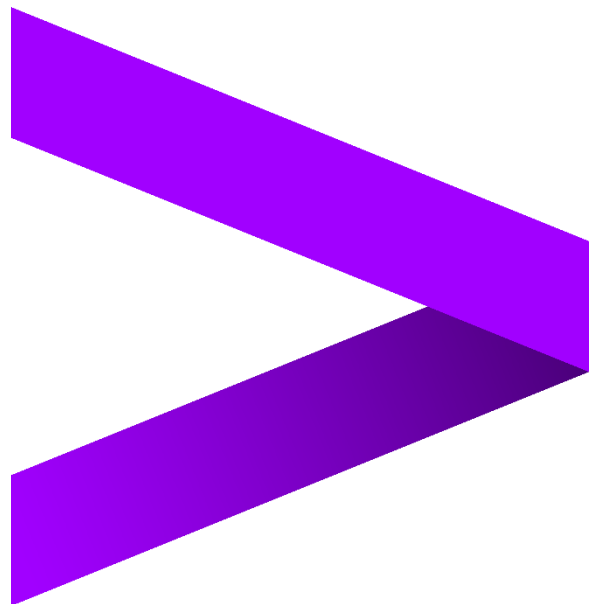


Mastering Ansible

Working with Ansible Galaxy



Version	Revision Date	Description	Author(s)	Reviewed by	Approved by
V1.0	14-09-2020	Initial Version	Ranjith Kumar Thirumalai Ramesh	Rathnajyothi Perumalsamy Vishnu Kallimakula	CPCL Sreenivasa Rao

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Exercise: Working with Ansible Galaxy

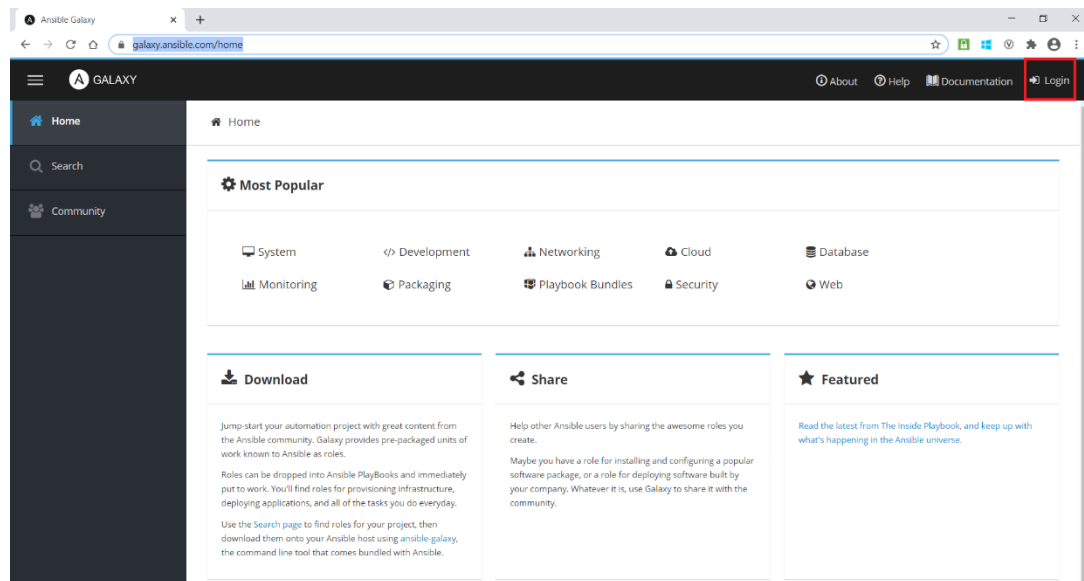
Prerequisite: Must have <https://github.com> account

Scenario: In this activity, we will cover how to create a collection that include roles.

Sub Activity 1: Creating ansible galaxy account

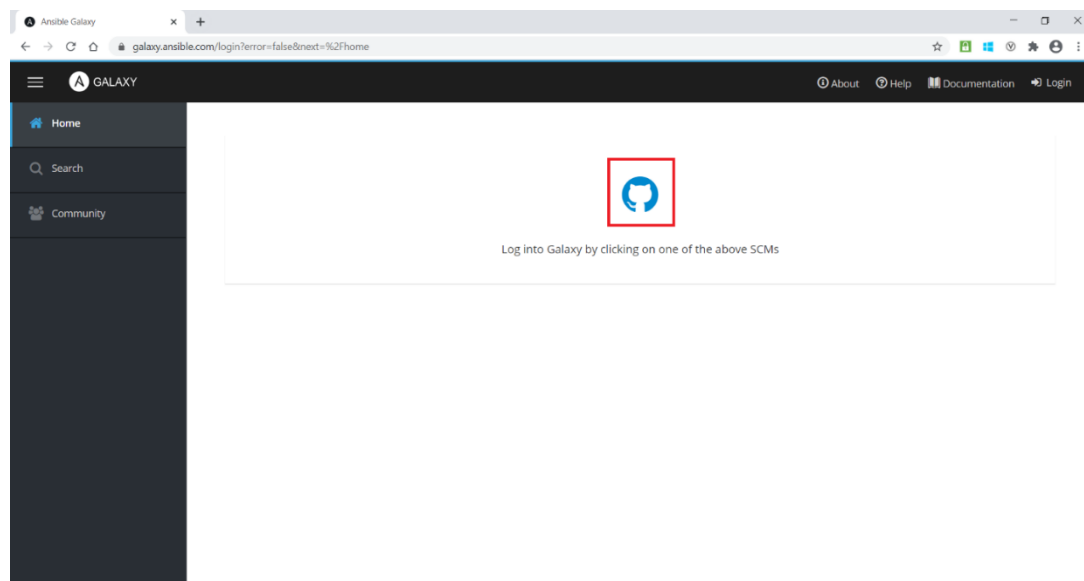
Step 1

Go to <https://galaxy.ansible.com/home> and click on Login link towards top right corner –



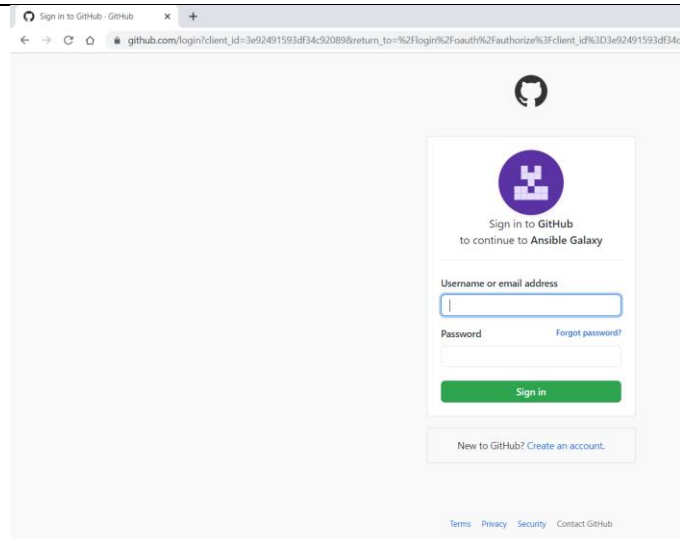
Step 2

You must have <https://github.com> account before creating account with Ansible Galaxy. Click on the github.com symbol as highlighted in the below image –



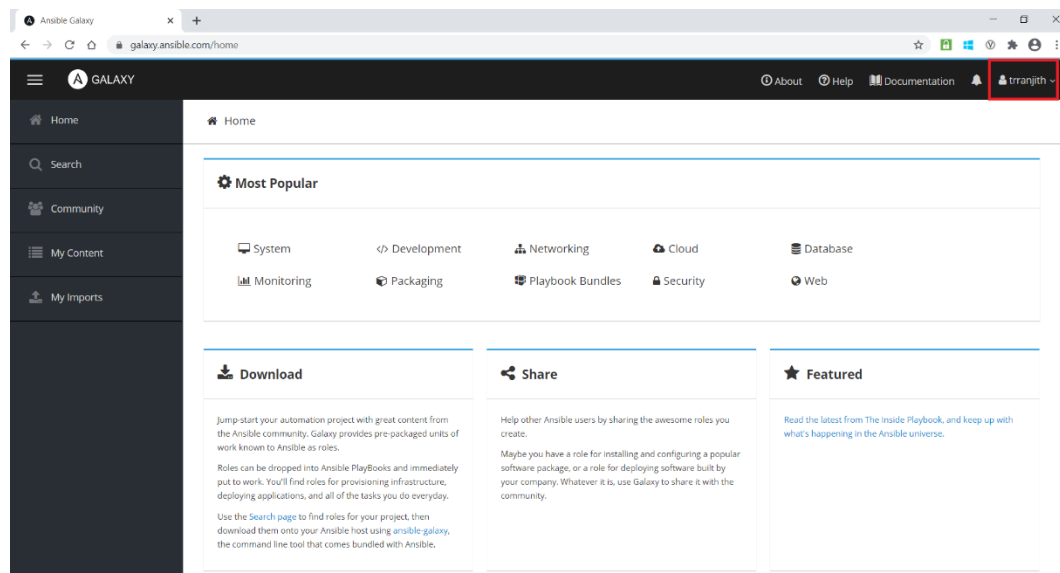
Step 3

Login to the <https://github.com> would login to ansible galaxy.



Step 4

Now you can notice, your github username towards top right corner as highlighted in the below image –



Sub Activity 2: Creating a collection using ansible galaxy

Step 1	<p>Create a folder with the name roles_activities and get inside the folder using mkdir and cd commands as shown below –</p> <pre>[root@localhost activities]# mkdir roles_activities && cd roles_activities [root@localhost roles_activities]# ls [root@localhost roles_activities]# █</pre>
Step 2	<p>Create a collection using the below command –</p> <p>ansible-galaxy collection init <github-username>.<collection_name></p> <p>For example: ansible-galaxy collection init <github-username>.war_deploy_collection</p> <pre>[root@localhost roles_activities]# ansible-galaxy collection init ttranjith.war_deploy_collection - Collection ttranjith.war_deploy_collection was created successfully [root@localhost roles_activities]# ls ttranjith [root@localhost roles_activities]# ls ttranjith/ war_deploy_collection [root@localhost roles_activities]#</pre>
Step 3	<p>Execute the below commands to get inside <github-username>/war_deploy_collection folder and later inside roles folder.</p> <pre>cd <github-username>/war_deploy_collection ls cd roles [root@localhost roles_activities]# cd ttranjith/war_deploy_collection/ [root@localhost war_deploy_collection]# ls docs galaxy.yml plugins README.md roles [root@localhost war_deploy_collection]# cd roles [root@localhost roles]# █</pre>
Step 4	<p>Execute the below command to create a role –</p> <p>Syntax: ansible-galaxy init <role_name></p> <p>ansible-galaxy init calculator_app_deploy</p> <pre>[root@localhost roles]# ansible-galaxy init calculator_app_deploy - Role calculator_app_deploy was created successfully [root@localhost roles]# █</pre>
Step 5	<p>Execute the below commands to start working with the new role created –</p> <pre>cd calculator_app_deploy tree</pre>

	<pre>[root@localhost roles]# cd calculator_app_deploy/ [root@localhost calculator_app_deploy]# tree</pre> <pre> . ├── defaults │ └── main.yml ├── files ├── handlers │ └── main.yml ├── meta │ └── main.yml ├── README.md ├── tasks │ └── main.yml ├── templates ├── tests │ ├── inventory │ └── test.yml └── vars └── main.yml </pre> <p>8 directories, 8 files [root@localhost calculator_app_deploy]#</p>
Step 6	<p>Copy and paste calculator.war file and server.xml files into files/ folder. After copying the result of the tree command is as shown below –</p> <pre>roles/calculator_app_deploy/ ├── defaults │ └── main.yml ├── files │ ├── calculator.war │ └── server.xml ├── handlers │ └── main.yml ├── meta │ └── main.yml ├── README.md ├── tasks │ └── main.yml ├── templates ├── tests │ ├── inventory │ └── test.yml └── vars └── main.yml </pre>
Step 7	Copy paste the code for handlers, tasks and variables into handlers/main.yml , tasks/main.yml and vars/main.yml files respectively. These codes are provided in Required.txt supplied file with the comment #code for handlers, #code for tasks and #code for variables respectively.
Step 8	Go back to roles_activities folder created in Step 1
Step 9	<p>Execute the below command to build the collection we created in Step 2</p> <p>Syntax: ansible-galaxy collection build <github-user-name>/<repository_name></p> <p>ansible-galaxy collection build <github-username>/war_deploy_collection</p>